

AI RESEARCH ASSISTANT · LUMORACHEMICALS.COM

# Meet LUMI

Your AI OLED and OPV research assistant, from first idea to quotation.

Work the way a materials chemist works. LUMI follows the whole journey, from first idea to working device to order, with **citations and honest confidence labels** at every step.

## The research journey, start to quotation

### 1 Explore OLED and OPV materials

Emitters, hosts, transport layers, donors and acceptors, all with cited answers.

### 2 Search the literature

Live PubMed, Semantic Scholar, OpenAlex and patent search, with links you can open.

### 3 Analyse papers and datasheets

Upload PDFs, spectra and spreadsheets. LUMI reads them and answers from your data.

### 4 Design your molecule

Draw a structure or paste a SMILES. LUMI renders it and pulls PubChem data.

### 5 Predict with real DFT

HOMO, LUMO, gap and S1 computed on demand. Measured values win when they exist.

### 6 Check synthesizability

Instant SAScore, route risk factors and a clear verdict.

### 7 Sketch the synthesis route

Retrosynthesis to commercial precursors over millions of published reactions.

### 8 Analyse NMR peaks

Upload your spectrum and work through peak assignments with LUMI.

### 9 Design the OLED or OPV stack

Published, cited reference stacks as your starting point.

### 10 Match the other layers

Layer materials suggested to fit your energy levels, HOMO to LUMO.

### 11 Stress test the stack

27 physics rules check alignment, confinement and balance, then flag what to fix.

### 12 Order it all

Stock checks, inquiry cart, custom synthesis requests and a quotation by email.

## Why researchers trust LUMI

- ✓ **Honest by design.** No verified source means LUMI says so. Computed values are rankings, not measurements.
- ✓ **Pricing by quotation only.** A personalised quotation arrives by email, never a price in chat.
- ✓ **Citations everywhere.** Every scientific answer names its source.
- ✓ **Ask in your language.** English, Korean, Japanese, Chinese or Hindi. LUMI replies in the same language.

**Spotted something wrong or missing?** Type it straight into the chat as feedback. It reaches our team instantly, and most fixes go live within 30 minutes.



Scan to start

## Ask LUMI today

Free on lumorachemicals.com. No account needed to start.

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